



## Bonneville Power Administration (BPA) Transmission Services

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### Available Transfer Capability (ATC) Methodology ATC Methodology Margin (AMM) and *De Minimis* Impact Dead-Band, Version 6

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## 1 Determining the ATC Methodology Margin

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The AMM is applicable to each Network Flowgate except for Flowgates where special case AMM is described.

### 1.1 AMM

- 1.1.1 If the Planning ATC is greater than the Contract Accounting ATC, the AMM is 25% of the Delta, except as noted.
- 1.1.2 If the Contract Accounting ATC is greater than the Planning ATC, there is no AMM for the Network Flowgate.
- 1.1.3 The AMM Methodologies described in Section 1 shall apply to the following Network Flowgates:
  - 1.1.3.1 Paul - Allston
  - 1.1.3.2 Allston - Keeler
  - 1.1.3.3 Monroe - Echo Lake; and
  - 1.1.3.4 Paul - Allston
  - 1.1.3.5 Cross- Cascades North and South (Spring and Summer only)

### 1.2 Special Case AMM

- 1.2.1 Raver-Paul Flowgate (netting adjustment):

For spring and summer seasons<sup>1</sup>, the AMM is adjusted to account for generation displacement (based on the impact of one (1) unit each at Centralia and Chehalis off-line during this time period). AMM is adjusted as follows:

  - 1.2.1.1 The AMM for the Raver-Paul Network Flowgate for the spring and summer seasons is a minimum of 300 MW.
  - 1.2.1.2 For seasons other than spring and summer<sup>2</sup>, the AMM Methodologies described in Section 1 shall apply.
- 1.2.2 Cross-Cascades North and South (extreme weather adjustment):

For the lwinter season, 1 in 20 loads are assumed in the computation of planning ATC and no AMM adjustment is made.
- 1.2.3 North of John Day:
  - 1.2.3.1 The AMM for the North of John Day Flowgate is a minimum of 200 MW in all months based on the nomogram for that flowgate and the AC Intertie.

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<sup>1</sup> Spring and summer seasons: Months of March - October.

<sup>2</sup> Seasons other than spring and summer: Months of November - February

- 1.2.3.2 If the Planning ATC is greater than the Contract Accounting ATC, then AMM is equal to 200 MW plus 25% of the Delta.
- 1.2.4 West of McNary:
  - 1.2.4.1 If the Planning ATC is greater than the Contract Accounting ATC, then AMM is equal to 10% of the Delta.
  - 1.2.4.2 If Planning ATC is less than Contract Accounting ATC, there is no AMM for the flowgate
- 1.2.5 West of Slatt:
  - 1.2.5.1 If the Planning ATC is greater than the Contract Accounting ATC, then AMM is equal 10% of the Delta.
  - 1.2.5.2 If Planning ATC is less than Contract Accounting ATC, there is no AMM for the flowgate
- 1.2.6 North of Hanford:
  - 1.2.6.1 If the Planning ATC is greater than the Contract Accounting ATC, then AMM is equal to 10% of the Delta.
  - 1.2.6.2 If Planning ATC is less than Contract Accounting ATC, there is no AMM for the flowgate.
- 1.3 The BPA Transmission Services reserves the right to modify the AMM and *de minimis* impact dead-band methodologies at any time

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## 2 *De Minimis* Impact Dead-Band

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All requests for transmission that use Network Flowgates will be evaluated to determine if such request has a *de minimis* impact on one or more of the Network Flowgates it impacts.

### 2.1 Tests to Determine *De Minimis*

Two tests (see Table 1) will be applied to each transmission request. If the request passes either test, then the transmission request will be deemed to have a *de minimis* impact on that Network Flowgate.

- 2.1.1 (Test 1) PUF of flowgate used to determine impact of request is less than or equal to 10% and the resulting impact on the flowgate is less than or equal to 10 MW.
- 2.1.2 (Test 2) 10 MW or less of net impact to a flowgate and the original flowgate impact divided by the new flowgate impact is greater than or equal to 90%.

Table 1: <i>De Minimis</i> Impact Criteria	
A transmission request must pass one of the following tests to be considered <i>de minimis</i> .	
Definitions	<p>A = Flowgate MW impact of new request</p> <p>B = 0 MW or Flowgate MW impact of original reservation, if any.</p> <p>(A - B) = Change in Flowgate MW impact</p> <p>PUF<sub>A</sub> = Flowgate PUF associated with POR/POD of new request</p>
Test 1	<p><math>(A - B) \leq 10 \text{ MW}</math></p> <p>AND</p> <p><math>\text{PUF}_A \leq 0.10</math></p>
Test 2	<p><math>(A - B) \leq 10 \text{ MW}</math></p> <p>AND</p> <p><math>B \div A \geq 0.90</math></p>

## 2.2 Managing the *De Minimis* Dead-Band

- 2.2.1 ATC will not be decremented for a transmission service request CONFIRMED if the request has *de minimis* impact on the flowgate. The *de minimis* impact will be added to a *de minimis* dead-band for that flowgate. BPA Transmission Services will track the status of the *de minimis* impact dead-band at each Network Flowgate and, at least once each year or when base case planning studies are updated, reset the *de minimis* dead-band and report the results. The *de minimis* impacts will be incorporated in the power flows and associated ATC values computed in these annual updates.
- 2.2.2 Between ATC base case planning study updates, the total for all transmission requests with *de minimis* impacts on a Network Flowgate will not be allowed to exceed two (2) percent of the TTC of such Network Flowgate or 50 MW, whichever is less.
- 2.2.3 The total BPA Transmission Services offers associated with pending Transmission Service requests at any time (including offers or agreements for System Impact Studies, System Facility Studies, financing agreements for required transmission construction and transmission service agreements), with *de minimis* impact on the Network Flowgate shall not exceed five (5) percent of the TTC of such Network Flowgate or a total *de minimis* impact dead-band of 100 MW, whichever is less.

- 2.2.4 However, when the total *de minimis* impact of all Transmission Service offers accepted reaches the lesser of two (2) percent of the Flowgate TTC or 50 MW, all other pending offers for Transmission Service impacting that flowgate will be suspended until ATC becomes available or the *de minimis* dead-band is reset as part of the annual update. This includes offers or agreements for System Impact Studies, System Facility Studies, financing agreements for required transmission construction, and Transmission Service Agreements that assume a *de minimis* impact to that Network Flowgate.
- 2.3 Rounding Rule Calculations

If a request has a net impact to any flowgate of between 0.001 MW and 0.99 MW, BPA Transmission Services will deem such flowgate impact to be equal to 1.0 MW for ATC and *de minimis* calculations.

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### 3 Other Considerations When Requesting PTP Transmission Service

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- 3.1 Prohibition of Multiple POR/POD Transmission Requests
  - 3.1.1 On July 12, 2004, BPA Transmission Services implemented a moratorium on multiple POR/POD requests, requiring that requests for Long-Term Firm Point-to-Point Transmission Service must specify a single POR and a single POD.
  - 3.1.2 However, when evaluating requests for Transmission Service involving multiple POR and POD pairs received prior to July 12, 2004, each POR/POD combination will be evaluated separately to determine the impact on the affected Network Flowgates, including *de minimis* impacts. Where ATC and/or *de minimis* dead-band is not available for some POR/POD combinations but is available for other POR/POD combinations, partial service over the available flowgate will be offered in accordance with BPA Transmission Services' Partial Service Business Practice.
- 3.2 Small Generator Nameplate Less Than or Equal to 4 MW
  - 3.2.1 For Transmission Service from a new generator project at a single POR having single or multiple PODs for single or multiple Transmission Customers, that has a total nameplate rating of less than or equal to 4 MW, the PUF value for determining applicability of *de minimis* impact on the Flowgate in Test 1 and Test 2 will be suspended. All such requests will be evaluated in queue order and granted provided that the *de minimis* impact dead-band is available on the affected Network Flowgate.
  - 3.2.2 Between ATC updates, the total for these small generator-based *de minimis* impacts on a Network Flowgate will not exceed 1 percent of the TTC of such Network Flowgate or 25 MW, whichever is less.

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### 4 Related Business Practices

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- 4.1 BPA Transmission Services Business Practices are available on its web site at [http://www.transmission.bpa.gov/Business/Business\\_Practices/](http://www.transmission.bpa.gov/Business/Business_Practices/).

- 4.2 ATC Supporting Information and Related Information/Documents are available on BPA Transmission Services' web page at [http://www.transmission.bpa.gov/Business/Customer\\_Forum\\_and\\_Feedback/ATC\\_Methodology/](http://www.transmission.bpa.gov/Business/Customer_Forum_and_Feedback/ATC_Methodology/)

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## 5 Version History

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Version Date	Status/Summary
10/20/06, V6	<ul style="list-style-type: none"><li>Deleted Section 1, Policy and Section 2, Definitions</li><li>Reorganized Section 2, De Minimis Impact Dead-Band</li><li>Changed the name TBL to BPA Transmission Services in compliance with BPA's new reorganization</li></ul>
06/07/05, V5	<p>Removed Appendix 4 from the base ATC Methodology document and posted as a separate document on the Tools, Assumptions, and Data Input page of BPA Transmission Services' web site.</p> <p>Rename and replace the Transmission Reliability Margin* (TRM) in the methodology with ATC Methodology Margin (AMM) and reduce explicit margins on three of the ten managed Network Flowgates, North of Hanford (NOH), West of McNary (WOM), and West of Slatt (WOS) from current levels of 25% of the difference between planning and contract accounting numbers to 10% of the difference between these numbers.</p>
02/01/05, V4	<p>Changes the rounding impact of fractional MW t to zero in it ATC and <i>de minimis</i> calculations.</p>
11/02/04, V3	<p>Updates Appendix 4, Section 3 to modify the <i>de minimis</i> testing criteria for the evaluation of new transmission requests.</p> <p>Second test added to evaluation of <i>de minimis</i> impacts.</p> <p>Multiple POR/POD evaluation updated to reflect moratorium starting August 13, 2004.</p>
03/15/04, V2	<p>Updates Appendix 4, Section 3 of the ATC Methodology to reflect updates to the <i>De Minimis</i> impact dead-band.</p> <p><i>De minimis</i> definition modified to accommodate offers associated with pending transmission service.</p> <p>Clarification of <i>de minimis</i> application to multiple POR/POD requests and small generator projects of 4 MW or less.</p> <p>Adoption of commitment to tracking <i>de minimis</i> impacts at Network Flowgates and reporting results.</p>
11/12/03	<p>This document was included as Appendix 4 of the ATC Methodology.</p>